

US EPA ARCHIVE DOCUMENT

DATA EVALUATION RECORD

1. CHEMICAL: Bordifacoum
2. FORMULATION: Technical (Dose levels analytically determined)
3. CITATION: Fourty-day Dietary LC<sub>50</sub>-Laughing Gull-masticated Rodent Tissue containing pp581, prepared by Wildlife International LTD. for ICI Americas, Inc. May 4, 1979 Acc. #24704.  
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4. REVIEWED BY: Russel Farringer  
Wildlife Biologist  
EEB/HED
5. DATE REVIEWED: 10/28/81
6. TEST TYPE: LC<sub>50</sub> - Dietary; 40 day  
Test Species: Laughing Gull
7. REPORTED RESULTS:  
The calculated LC<sub>50</sub> is 1.6 ppm, confidence limits  
0.8 to 3.3 ppm.
8. REVIEWER'S CONDCCLUSIONS: This study will not support registration.  
The use of a supplemental feed containing menadione sodium bisulfite complex could bias the results of the test.



## Materials and Methods

### Test Procedure

The procedure generally followed EPA guideline with the following exception(s):

- 1) The birds were mature at the beginning of the study.
- 2) Five dose levels instead of six were used.
- 3) Five birds per dose level instead of ten were used.
- 4) Cat food containing the menadione sodium bisulfite complex was used for feed. This complex is related to the Vitamin K antidote for the compound.
- 5) Birds were not an acceptable species as per guidelines.

### Statistical Analysis

"Maximum Likelihood Method" by R.A. Fischer

### Discussion/Results

<u>Dietary Concentration (ppm)</u>	<u>Birds/Pen/mortality</u>
Toxicant Free Diet	5/0
0.13 ppm	5/0
0.34 ppm	5/1
0.84 ppm	5/0
2.10 ppm	5/4
5.26 ppm	5/4

### Reviewer's Evaluation

#### Test Procedure

This test appears to be designed to determine the LC<sub>50</sub> of a scavenging bird. The test results would have been useful if the supplemental feed had not contained menadione sodium bisulfite complex. This 'complex' could of biased the results as it can be use to treat anticoagulation systems.

#### Conclusions

Category: Invalid

Rationale: See 'Test Procedure' above

Repairability: Re-run test without anticoagulant medication or additives in feed.